

ADVANCED GROUNDWATER INVESTIGATIONS (AGWI)

1 DAY

This one-day, advanced groundwater course is designed to provide participants an opportunity to apply their geologic and hydrogeologic skills to solve a challenging site investigation problem. The course is obviously intended for on-scene coordinators, remedial project managers, and other site professionals with extensive groundwater investigation backgrounds.

Participants will construct geologic cross-sections, subsurface lithology maps of aquifers and water-level and potentiometric groundwater surface maps using soil boring logs, geophysical logs, and water surface measurement data from wells. They will compare this data and aquifer test data to establish the contamination source at a municipal water supply well.

At the beginning of the course, the instructors will supply brief descriptions of hydrogeologic concepts and borehole geophysical logs. They will then divide the participants into small groups. An hour before the end of the session, each group will present its results to the others.

The students will accomplish the following objectives:

- Refresh basic geologic/hydrogeologic concepts
- Apply geologic/hydrogeologic skills
- Solve challenging problems incorporating geologic analysis, aquifer test analysis, well log analysis, cross sections, and subsurface mapping.

Agenda

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City, State

Month, Date, Year

COURSE DIRECTOR: , Tetra Tech NUS, Inc.
INSTRUCTOR: , Tetra Tech NUS, Inc.

<i>DAY and TIME</i>	<i>SUBJECT</i>	<i>SPEAKER</i>
Month, Date		
8:00 – 9:00 a.m.	Introduction	Staff
9:00 –12:00 p.m.	Problem Exercise	Staff
12:00 – 1:00 p.m.	LUNCH	
1:00 – 4:00 p.m.	Problem Exercise	Staff

REQUIREMENTS

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FACILITY REQUIREMENTS

1. Classroom Space

One classroom that can comfortably accommodate 24 students is needed to present this course. In the event this course is conducted following the 3-day Introduction to Groundwater Investigations (IGWI) course (165.7), the same classroom can be used. If this course is conducted independently of the IGWI course, the requirements are as follows: one classroom at least 35×40 feet, 12 standard work tables (8×3 feet) with 2 chairs at each table, and 1 additional table and 2 chairs for the instructors.

2. Facility Access

One day prior to the AGWI course, E RTP staff will set up the classroom. Therefore, the classroom should be available to the E RTP staff no later than 3:00 p.m. the day preceding the AGWI course. On the day of the course, E RTP staff and students will require exclusive use of the classroom. The course director will arrange the initial setup time and discuss exclusive use requirements with the facility contact.

3. Visual Equipment

The classroom should contain the following materials:

- Screen for showing overheads.
- One overhead projector on a moveable stand.

4. Refreshments and Meals

No special arrangements for refreshments and meals are required; however, access to vending machines is appreciated.

5. Telephones

Telephones should be available for student use throughout the day. Public telephones will suffice. The facility contact should provide the course director with a telephone number that can be used for incoming emergency calls and messages.

6. Maps and Area Information

A legible map (not hand drawn) showing the facility location should be sent to E RTP Training Registration 8 weeks prior to the course.

PARTICIPANT INFORMATION

This course is designed for personnel who have experience in conducting groundwater investigations. This generally includes geologists, hydrogeologists, engineers, and other environmental professionals who are currently conducting or have extensive previous experience with subsurface investigations. This course is not

designed for personnel with little or no groundwater investigation experience. If these personnel are interested in attending the AGWI course, they must, at a minimum, attend ERTTP's Introduction to Groundwater Investigations (165.7) course as a prerequisite.

No more than 24 participants may be enrolled in each AGWI course. Any deviations in class size must be approved in advance by the course director. ERTTP Training Registration and the local contact must coordinate participant registration. Any questions the participants have about enrollment in ERTTP courses should be directed to ERTTP Training Registration (participants in EPA Regions 1, 6, and 8 should direct questions to the regional training contact).

The local contact should inform participants of the following course-related information:

- No special clothing is required; casual dress is encouraged.
- Scientific calculators are recommended, but not required.
- The course lasts 1 full day.
- Class begins at 8 a.m. and ends at approximately 4 p.m.
- To receive an EPA course certificate, 100-percent attendance is mandatory.

SHIPPING REQUIREMENTS

1. Facility Contact

The name and telephone number of the facility contact should be provided to ERTTP Training Registration. The facility contact will be responsible for receiving a shipment of approximately 4–5 boxes or large shipping cases delivered by a commercial carrier service. The boxes and shipping cases must be stored in a secured area until needed by the ERTTP staff. Every effort will be made to ensure that the shipped material will arrive just prior to the course to avoid unnecessary storage.

2. Equipment Delivery

All course materials are shipped via a commercial carrier and delivered to the facility's assigned drop off/pickup location. The physical address (if different from the mailing address), telephone number, and hours of operation for the facility must be provided to ERTTP Training Registration so shipping arrangements can be made. The commercial carrier will not deliver to a post office box or leave materials after hours. If the drop off/pickup location is not the classroom, the facility personnel will be required to move the equipment to the classroom.

Equipment is usually delivered by 4:30 p.m. two working days before the course. The course director will verify whether the shipment has been received at the facility. ERTTP staff will trace the shipment, if necessary.

3. Shipping Equipment

Normal pickup for materials being shipped back to the ERTTP Training Center in Cincinnati, Ohio, is on the first working day following the course by 4:30 p.m.